

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A radio data transmission method comprising:

receiving information ~~corresponding to a data amount of a buffer and a~~
~~characteristic of data to be transmitted from~~ each of a plurality of logical channels, each
received information including information about an amount of re-transmission data that
exists in a buffer that corresponds to the specific logic channel; and

selecting data to transmit from one of the plurality of logical channels based
at least on the ~~data characteristic of each channel, wherein the data characteristic used to~~
~~select data from one of the channels includes an~~ received information about the amount of
the re-transmission data that exists in the corresponding buffer for [[a]]each specific logical
channel, wherein the re-transmission data corresponds to data that was previously partially
sent to a transport channel.

2. (Canceled)

3. (Currently Amended) The method of claim 1, wherein the ~~data characteristic~~ information about the amount of the re-transmission data comprises one of a True indication representing that the re-transmission data exists in the buffer corresponding to the specific logic channel and a False indication representing that the re-transmission data does not exist in the buffer corresponding to the specific logic channel.
4. (Original) The method of claim 1, further comprising sending the information from each of the logical channels to a transport channel.
5. (Original) The method of claim 4, wherein sending the information comprises sending a MAC_STATUS_RESP Primitive.
6. (Currently Amended) The method of claim 5, wherein the MAC_STATUS_RESP Primitive includes information of the ~~data characteristic~~ amount of the re-transmission data.
7. (Currently Amended) The method of claim 5, wherein said MAC_STATUS_RESP Primitive includes the information representing the amount of the re-transmission data in the corresponding buffer.

8. (Currently Amended) A radio data transmission method comprising:
receiving information corresponding to a data amount of a buffer and a characteristic of data to be transmitted from a plurality of logical channels; and
selecting data to transmit from one of the plurality of logic channels based at least on the data characteristic of each channel, wherein selecting the data comprises:
~~judging whether a logical channel includes~~ determining which ones of the plurality of logic channels include re-transmission data in a buffer corresponding to the specific logic channel, wherein the re-transmission data includes data previously sent with a data loss; and
selecting one of the logical channels based on an amount of the re-transmission data and a priority of ~~each of the logical channel-channels that includes are~~ determined to include the re-transmission data in their corresponding buffer.

9. (Currently Amended) The method of claim 8, wherein ~~judging whether the logical channel~~ determining which ones of the plurality of logic channels includes re-transmission data in the corresponding buffer is based on one of a True indication and a False indication.

10. (Currently Amended) The method of claim 1, wherein selecting data is based on whether re-transmission data exist in the corresponding buffer of a logical channel rather than by a priority of the logical channel.

11. (Currently Amended) A data transmission method comprising:

receiving information from each of a plurality of logical channels;

selecting data of a specific one of the logical channel channels based on priorities of the logical channels and based on an amount of re-transmission data that exists for each logical channel in a corresponding buffer, the selected data based on the received information, wherein the re-transmission data corresponds to data that was previously partially sent from one of the logic channels; and

transmitting the selected data from the transport channel.

12. (Canceled)

13. (Currently Amended) The method of claim ~~[[12]]~~11, wherein sending the information comprises sending a MAC_STATUS_RESP Primitive.

14. (Currently Amended) The method of claim 13, wherein the MAC_STATUS_RESP Primitive includes information regarding the existence of re-transmission data in a buffer corresponding to the logic channel.

15. (Currently Amended) The method of claim 13, wherein the MAC_STATUS_RESP Primitive includes information representing the amount of the re-transmission data in a buffer corresponding to the logic channel.

16. (Currently Amended) The method of claim 11, further comprising prioritizing a first logical channel having re-transmission data in a corresponding buffer with a higher priority than a second logical channel without re-transmission data in a corresponding buffer, and transmitting data of the first logical channel prior to transmitting data of the second logical channel.

17. (Currently Amended) The method of claim 11, wherein the selecting of data of the specific logical channel is performed based on priorities of corresponding logical channels [[if]]when a plurality of logical channels include re-transmission data in corresponding buffers.

18. (Currently Amended) The method of claim 11, wherein the selection of the specific logical channel is performed based on priorities of each logical channel [[if]]when logical channels do not include re-transmission data in corresponding buffers.

19. (Currently Amended) A method comprising:

receiving information regarding data characteristics of a plurality of logical channels, the received information including re-transmission information; and

selecting one of the logical channels based at least on ~~the data characteristics of each of the logical channels, wherein the data characteristics represent~~ the received re-transmission information regarding an amount of re-transmission data that exists for [[a]] each specific logical channel in a corresponding buffer.

20. (Canceled)

21. (Currently Amended) The method of claim 19, further comprising sending the information from each of the logical channels to ~~the~~ a transport channel.

22. (Currently Amended) The method of claim 19, wherein selecting one of the logical channels comprises:

~~judging whether a logical channel includes~~ determining which ones of the plurality of logic channels include re-transmission data in a corresponding buffer of the logic channel; and

selecting one of the logical channels based on priorities of the determined ones of the logical channels that include the re-transmission data in the corresponding buffer of the specific logic channel.

23. (Currently Amended) A device to transmit data comprising:

a plurality of logical channels each to transmit information regarding a data characteristic of the respective logical channel, each logic channel including a corresponding buffer; and

a transport channel to select one of the logical channels based at least on the transmitted information regarding the data characteristic of the selected each respective logical channel, wherein the transport channel ~~judges~~ determines whether the logical channels include re-transmission data in the corresponding buffers and the transport channel selects one of the logical channels based on priorities of the logical channels that include the re-transmission data and an amount of the re-transmission data that exists in the corresponding buffers for the specific logical channels.

24. (Currently Amended) The device of claim 23, wherein the data characteristic represents whether the re-transmission data exists for the selected logical channel in its corresponding buffer.

25-27. (Canceled)